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# ***ENTERED***

<110> APPLICANT: CHILDREN'S MEDICAL CENTER CORPORATION  
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 <120> TITLE OF INVENTION: METHOD FOR TREATING NEUROLOGICAL DISORDERS  
 <130> FILE REFERENCE: 701039-054381-PCT  
  
 <140> CURRENT APPLICATION NUMBER:10580364  
 <141> CURRENT FILING DATE:0001-01-01  
 <150> PRIOR APPLICATION NUMBER: PCT/US04/42255  
 <151> PRIOR FILING DATE: 2004-12-10  
 <150> PRIOR APPLICATION NUMBER: 60/529,833  
 <151> PRIOR FILING DATE: 2003-12-16  
 <160> NUMBER OF SEQ ID NOS: 18  
 <170> SOFTWARE: PatentIn Ver. 3.3  
  
 <210> SEQ ID NO 1  
 <211> LENGTH: 40  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens  
 <400> SEQUENCE: 1  
 Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys Ser Asp Glu Gly  
 1 5 10 15  
 His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu Glu  
 20 25 30  
 Leu Val Gln Lys Tyr Ser Asn Ser  
 35 40  
  
 <210> SEQ ID NO 2  
 <211> LENGTH: 25  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens  
 <400> SEQUENCE: 2  
 Ile Gln Lys Ser Asp Glu Gly His Pro Phe Arg Ala Tyr Leu Glu Ser  
 1 5 10 15  
 Glu Val Ala Ile Ser Glu Glu Leu Val  
 20 25  
  
 <210> SEQ ID NO 3  
 <211> LENGTH: 25  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens  
 <400> SEQUENCE: 3  
 Arg Ala Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu Glu Leu Val Gln  
 1 5 10 15  
 Lys Tyr Ser Asn Ser Ala Leu Gly His  
 20 25  
  
 <210> SEQ ID NO 4  
 <211> LENGTH: 25  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens  
 <400> SEQUENCE: 4  
 Ser Glu Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His Val  
 1 5 10 15  
 Asn Cys Thr Ile Lys Glu Leu Arg Arg  
 20 25  
  
 <210> SEQ ID NO 5  
 <211> LENGTH: 25  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens

<400> SEQUENCE: 5  
 Ala Leu Gly His Val Asn Cys Thr Ile Lys Glu Leu Arg Arg Leu Phe  
           1                  5                  10                  15  
 Leu Val Asp Asp Leu Val Asp Ser Leu  
                   20                  25

<210> SEQ ID NO 6

<211> LENGTH: 40

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 6  
 Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys Ser Asp Glu Gly  
           1                  5                  10                  15  
 His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu Glu  
                   20                  25                  30  
 Leu Val Gln Lys Tyr Ser Asn Ser  
                   35                  40

<210> SEQ ID NO 7

<211> LENGTH: 66

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 7  
 Phe Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys Ser Asp Glu  
           1                  5                  10                  15  
 Gly His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu  
                   20                  25                  30  
 Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His Val Asn Cys  
                   35                  40                  45  
 Thr Ile Lys Glu Leu Arg Arg Leu Phe Leu Val Asp Asp Leu Val Asp  
           50                  55                  60  
 Ser Leu  
           65

<210> SEQ ID NO 8

<211> LENGTH: 473

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 8  
 Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu  
           1                  5                  10                  15  
 Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val  
                   20                  25                  30  
 Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu  
                   35                  40                  45  
 Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu  
           50                  55                  60  
 His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys  
           65                  70                  75                  80  
 Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile  
                   85                  90                  95  
 Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu  
                   100                  105                  110  
 Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly  
           115                  120                  125  
 Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu  
           130                  135                  140  
 Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr  
           145                  150                  155                  160  
 Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp  
                   165                  170                  175

Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser
			180					185					190		
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu
		195					200					205			
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp
	210					215					220				
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala
225					230					235					240
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg
				245					250					255	
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp
			260					265					270		
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Glu	Val	Pro	Cys	Ser
		275					280					285			
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Ala	Asn
	290					295					300				
Asp	Leu	Gln	Gly	Cys	Ala	Val	Ala	Thr	Gly	Pro	Tyr	His	Pro	Ile	Trp
305					310					315					320
Thr	Gly	Arg	Ala	Thr	Asp	Glu	Glu	Pro	Leu	Gly	Leu	Pro	Lys	Cys	Cys
				325					330					335	
Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala	Ser	Val	Leu	Glu	Pro	Gly	Arg	Pro
			340					345					350		
Ala	Ser	Ala	Gly	Asn	Ala	Leu	Lys	Gly	Arg	Val	Pro	Pro	Gly	Asp	Ser
		355					360					365			
Pro	Pro	Gly	Asn	Gly	Ser	Gly	Pro	Arg	His	Ile	Asn	Asp	Ser	Pro	Phe
	370					375					380				
Gly	Thr	Leu	Pro	Gly	Ser	Ala	Glu	Pro	Pro	Leu	Thr	Ala	Val	Arg	Pro
385					390					395					400
Glu	Gly	Ser	Glu	Pro	Pro	Gly	Phe	Pro	Thr	Ser	Gly	Pro	Arg	Arg	Arg
				405					410					415	
Pro	Gly	Cys	Ser	Arg	Lys	Asn	Arg	Thr	Arg	Ser	His	Cys	Arg	Leu	Gly
			420					425					430		
Gln	Ala	Gly	Ser	Gly	Gly	Gly	Gly	Thr	Gly	Asp	Ser	Glu	Gly	Ser	Gly
		435					440					445			
Ala	Leu	Pro	Ser	Leu	Thr	Cys	Ser	Leu	Thr	Pro	Leu	Gly	Leu	Ala	Leu
	450					455					460				
Val	Leu	Trp	Thr	Val	Leu	Gly	Pro	Cys							
465					470										

<210> SEQ ID NO 9

<211> LENGTH: 473

<212> TYPE: PRT

<213> ORGANISM: Mus musculus

<400> SEQUENCE: 9

Met	Lys	Arg	Ala	Ser	Ser	Gly	Gly	Ser	Arg	Leu	Leu	Ala	Trp	Val	Leu
1				5					10					15	
Trp	Leu	Gln	Ala	Trp	Arg	Val	Ala	Thr	Pro	Cys	Pro	Gly	Ala	Cys	Val
		20						25				30			
Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Ser	Cys	Pro	Gln	Gln	Gly	Leu	
		35					40				45				
Gln	Ala	Val	Pro	Thr	Gly	Ile	Pro	Ala	Ser	Ser	Gln	Arg	Ile	Phe	Leu
	50					55					60				
His	Gly	Asn	Arg	Ile	Ser	His	Val	Pro	Ala	Ala	Ser	Phe	Gln	Ser	Cys
65					70					75					80
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Ala	Leu	Ala	Arg	Ile
				85					90					95	
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Thr	Leu	Leu	Glu	Gln	Leu	Asp	Leu
			100					105				110			
Ser	Asp	Asn	Ala	Gln	Leu	His	Val	Val	Asp	Pro	Thr	Thr	Phe	His	Gly
		115					120					125			
Leu	Gly	His	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Arg	Glu

130	Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr	135	140
145	Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp	150	155
	165	170	175
180	Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser	185	190
195	Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu	200	205
210	Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp	215	220
225	Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met	230	235
	245	250	255
260	Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp	265	270
275	Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Asn	280	285
290	Leu Pro Gln Arg Leu Ala Asp Arg Asp Leu Lys Arg Leu Ala Ala Ser	295	300
305	Asp Leu Glu Gly Cys Ala Val Ala Ser Gly Pro Phe Arg Pro Ile Gln	310	315
	325	330	335
340	Gln Pro Asp Ala Ala Asp Lys Ala Ser Val Leu Glu Pro Gly Arg Pro	345	350
355	Ala Ser Ala Gly Asn Ala Leu Lys Gly Arg Val Pro Pro Gly Asp Thr	360	365
370	Pro Pro Gly Asn Gly Ser Gly Pro Arg His Ile Asn Asp Ser Pro Phe	375	380
385	Gly Thr Leu Pro Ser Ser Ala Glu Pro Pro Leu Thr Ala Leu Arg Pro	390	395
	405	410	415
420	Pro Gly Cys Ser Arg Lys Asn Arg Thr Arg Ser His Cys Arg Leu Gly	425	430
435	Gln Ala Gly Ser Gly Ala Ser Gly Thr Gly Asp Ala Glu Gly Ser Gly	440	445
450	Ala Leu Pro Ala Leu Ala Cys Ser Leu Ala Pro Leu Gly Leu Ala Leu	455	460
465	Val Leu Trp Thr Val Leu Gly Pro Cys		
	470		

<210> SEQ ID NO 10

<211> LENGTH: 344

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 10

Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu	1	5	10	15
Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val	20	25	30	
Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu	35	40	45	
Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu	50	55	60	
His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys	65	70	75	80
Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile	85	90	95	

Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Ala	Leu	Leu	Glu	Gln	Leu	Asp	Leu	
			100					105					110			
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val	Asp	Pro	Ala	Thr	Phe	His	Gly	
		115					120					125				
Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu	
	130					135					140					
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr	
145					150				155						160	
Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu	Pro	Asp	Asp	Thr	Phe	Arg	Asp	
				165					170					175		
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser	
		180						185					190			
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu	
		195					200						205			
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp	
	210					215					220					
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala	
225					230				235						240	
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg	
				245					250					255		
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp	
		260					265						270			
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Glu	Val	Pro	Cys	Ser	
		275					280					285				
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Ala	Asn	
	290					295					300					
Asp	Leu	Gln	Gly	Cys	Ala	Val	Ala	Thr	Gly	Pro	Tyr	His	Pro	Ile	Trp	
305					310					315					320	
Thr	Gly	Arg	Ala	Thr	Asp	Glu	Glu	Pro	Leu	Gly	Leu	Pro	Lys	Cys	Cys	
				325					330					335		
Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala									
			340													

<210> SEQ ID NO 11

<211> LENGTH: 310

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 11

Met	Lys	Arg	Ala	Ser	Ala	Gly	Gly	Ser	Arg	Leu	Leu	Ala	Trp	Val	Leu	
1				5					10					15		
Trp	Leu	Gln	Ala	Trp	Gln	Val	Ala	Ala	Pro	Cys	Pro	Gly	Ala	Cys	Val	
			20					25					30			
Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Thr	Ser	Cys	Pro	Gln	Gln	Gly	Leu	
		35					40					45				
Gln	Ala	Val	Pro	Val	Gly	Ile	Pro	Ala	Ala	Ser	Gln	Arg	Ile	Phe	Leu	
	50					55					60					
His	Gly	Asn	Arg	Ile	Ser	His	Val	Pro	Ala	Ala	Ser	Phe	Arg	Ala	Cys	
65					70					75					80	
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Val	Leu	Ala	Arg	Ile	
				85					90					95		
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Ala	Leu	Leu	Glu	Gln	Leu	Asp	Leu	
			100					105					110			
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val	Asp	Pro	Ala	Thr	Phe	His	Gly	
		115					120					125				
Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu	
	130					135					140					
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr	
145					150					155					160	
Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu	Pro	Asp	Asp	Thr	Phe	Arg	Asp	
			165						170					175		
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser	